

## Faceting 101 - Lesson 3

Standard Round Brilliant (unstacked)

by Marcel Tolkowsky (modification in public domain)

Angles for R.I. = 1.540

57 + 16 girdles = 73 facets

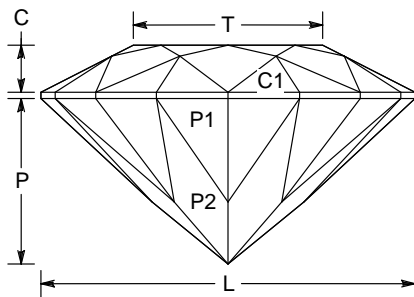
8-fold, mirror-image symmetry

96 index

$L/W = 1.000$   $T/W = 0.506$   $U/W = 0.506$

$P/W = 0.442$   $C/W = 0.126$

$Vol./W^3 = 0.188$



### PAVILION

P1 43.50° 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93 Cut to centerpoint.

G1 90.00° 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93 Set stone size.

P2 41.50° 06-18-30-42-54-66-78-90 Meet P1, G1

### CROWN

C1 31.00° 03-09-15-21-27-33-39-45-51-57-63-69-75-81-87-93 Set girdle width.

C2 27.00° 96-12-24-36-48-60-72-84 Meet G1, C1

C3 16.00° 06-18-30-42-54-66-78-90 Meet C1, C2

T 0.00° Table Meet C2, C3

Our third lesson is a slight modification on the "Standard Round Brilliant", or SRB. This lesson teaches how to cut meetpoints on the pavilion (P2), how to cut the stone to specifications (G1, C1), how to make new meetpoints by cutting to old ones (C2), and how to cut the table to a meetpoint (T).

Lesson rules: cut in clear quartz, with  $W = 10 \text{ mm}$  (+/- 2.0 mm) and  $G = 0.3 \text{ mm}$  (+/- 0.2 mm)

C:\Program Files (x86)\GemCAD\Designs (Mine)\Teaching Series\Faceting 101 - Lesson 3 - Standard Round Brilliant.gem